Applied Traffic Flow Management

Completed Technology Project (2015 - 2020)

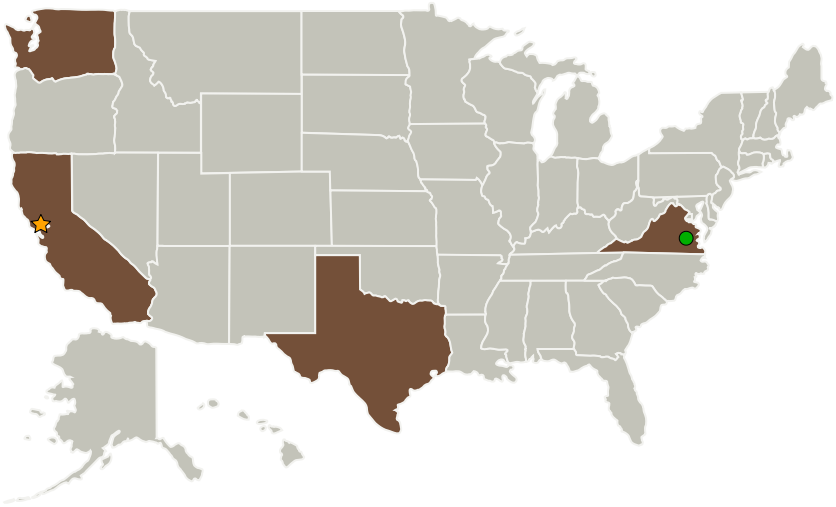
Project Introduction

Domestic Applied Traffic Flow Management develops and delivers air/ground technologies and procedures to the FAA and flight operators that enable reduced weather-induced delays through the integration of weather information to better manage aircraft, traffic flow, airspace and schedule constraints.

Anticipated Benefits

• Efficient re-routes that are traffic-manager friendly, avoid merging streams, weather proximity, and congestion. • Integrated solutions extend NASA domestic air/ground capabilities for individual aircraft and streams of aircraft to overcome traffic flow management challenges and achieve reduced lengths of conservative pre-flight routes.

Primary U.S. Work Locations and Key Partners



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Organizations Performing Work	Role	Type	Location
★Ames Research Center(ARC)	Lead Organization	NASA Center	Moffett Field, California
Alaska Airlines	Supporting Organization	Industry	Alaska
American Airlines	Supporting Organization	Industry	
Federal Aviation Administration(FAA)	Supporting Organization	US Government	Washington, District of Columbia
●Langley Research Center(LaRC)	Supporting Organization	NASA Center	Hampton, Virginia

Primary U.S. Work Locations	
California	Texas
Virginia	Washington

Project Website:

https://www.aviationsystemsdivision.arc.nasa.gov/research/strategic/atd3.shtr

Organizational Responsibility

Responsible Mission Directorate:

Aeronautics Research Mission Directorate (ARMD)

Lead Center / Facility:

Ames Research Center (ARC)

Responsible Program:

Airspace Operations and Safety Program

Project Management

Program Director:

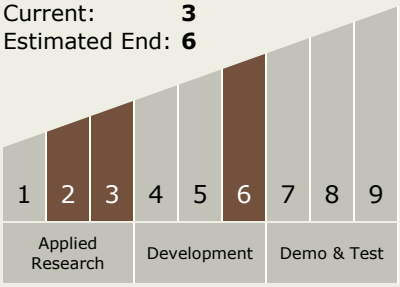
Akbar Sultan

Project Manager:

Shawn A Engelland

Technology Maturity (TRL)

Start: **2**
Current: **3**
Estimated End: **6**



Technology Areas

Primary:

Continued on following page.

Technology Areas *(cont.)*

- TX16 Air Traffic Management and Range Tracking Systems
  - TX16.3 Traffic Management Concepts

Target Destination

Earth